

Novelis Carbon Calculations and Recycled Content Percentages for Your Products

We are pleased to share with you key metrics of Novelis sourced products in our 2024 fiscal year (April 1, 2023 – March 31, 2024).

Key Metrics for Painted – Novelis Europe



Product
AA5050A



Recycled Content %¹

90



CO₂e kg/kg Aluminum

2.0

Closed Loop Scrap Contribution

0kt

Carbon footprint Methodology & Mass Balance Chain of Custody

Novelis calculates product CO₂e emissions (carbon footprints) using a cradle-to-gate approach, aligned with the Greenhouse Gas Protocol Product Life Cycle Accounting & Reporting Standard. This includes embodied emissions from primary aluminum sourcing (using CRU² and IAI³ emission factors), emissions from production, and transportation of materials and products within Novelis sites and to customers.

Carbon footprints are initially calculated to establish a physical baseline for each alloy. Customer-level CO₂e intensities are then determined based on the allocation of scrap from closed-loop recycling (CLR) agreements, market scrap, and then low-carbon prime materials using a mass balance chain of custody. This covers Novelis' European production sites, aligned with ISO 22095. The resulting CO₂e intensities represented in this document are available for customer use for reporting CO₂e intensities to calculate their Scope 3 emissions in accordance with the Greenhouse Gas Protocol Corporate Accounting and Reporting Standard.

To ensure transparency and accuracy, Novelis Europe engaged DNV Business Assurance Germany GmbH (DNV) to provide independent limited assurance on the data and methodology for calculating product carbon footprint intensities. The assurance process, which reviewed fiscal year 2024 data (April 1, 2023 – March 31, 2024), supports the integrity of the carbon intensity values provided to customers. The full assurance statement is available upon request.

¹ DNV have not reviewed or verified claims of recycled content.

² CRU (Commodities Research Unit) CRU Group: Home - CRU Group

³ IAI (International Aluminium Institute) International Aluminium Institute | Global Voice of the Primary Aluminium Industry

Furthering Sustainability at Novelis

Novelis' vision is to advance aluminum as the material of choice with circular solutions.

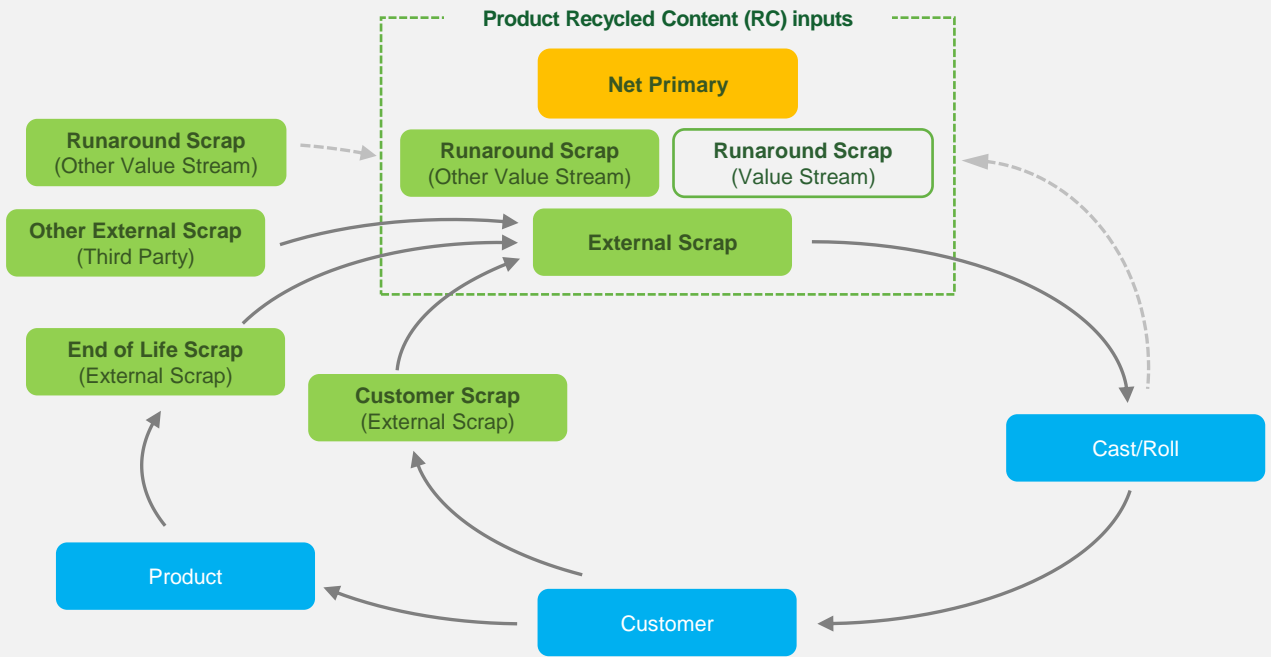
Through our new Novelis 3x30, we aim to accelerate decarbonization and increase the circularity of aluminum. This comprehensive initiative will enable us to help our customers achieve their sustainability goals faster by focusing on three objectives to reach by the end of 2030:

- o Achieving 75% average recycled content in our products
- o Becoming the lowest emissions flat rolled products (FRP) aluminum provider with less than 3 tonnes of CO₂e per tonne of FRP shipped
- o Continuing first-mover investments to lead the industry to circularity

Ask us how we can work together to increase the recycled content and decrease the CO₂ footprint of your products.



Recycled Content Methodology



Product Manufacturing
Each stage of the product manufacturing process is included to show the stages where scrap enters the value chain.

Net Primary Content
includes sheet ingot, coil, prime, alloys and hardeners (after melt loss) and is one of the inputs to the Value Stream. The recycled content formula is based on the amount of primary aluminum used in the product.

Recycled Content external scrap is received from a variety of third-party sources. This includes customer scrap, end-of-life scrap, other external scrap, and runaround scrap from other Novelis value streams.

Runaround Scrap from the same value stream is not considered recycled content.

Novelis has calculated recycled content in alignment with ISO 14021, referencing applicable standards and industry best practices. Recycled content methodology validated by TrueNorth Collective.

Product Recycled Content (RC) Formula

Net Primary: sheet ingot, coil, prime, alloys and hardeners (after melt loss)
Adjustment: coated scrap, runaround melt loss

$$RC\% = \frac{\text{Customer Shipments} - \text{Net Primary} + \text{Adjustment}}{\text{Customer Shipments}}$$

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